JENNIFER E. OWEN

Curriculum Vitae

12/20/2024

Forensic Audio and Video Analysis
Jennifer E. Owen
www.owenforensicservices.com
P.O. Box 189 * Colonia, NJ 07067 * 732-574-9672
jen@owenforensicservices.com
Certified Forensic Analyst in Audio, Video and Voice Comparison Analysis

Jennifer E. Owen has worked as a forensic recorded evidence media analyst since 1995. She was a Chief Forensic Examiner at Owl Investigations, Inc in New York City. Ms. Owen specializes in Audio and Video Analysis and Voice Identification/Speaker Recognition. In 2001, she obtained her master's degree in Criminal Justice. In 2010, she started her own company, Owen Forensic Services, LLC. Ms. Owen has analyzed hundreds of Audio, Video and Voice Identification cases, voice comparison analysis, all audio and video clarification including authenticity, forensic transcription, clarified photographs, CCTV surveillance systems, video retrieval and recovery, and meta-data recovery of digital files.

Clients Serviced:

Private citizens, Private Investigator's, Private attorney's, Public Defender's, Prosecutor's Office, District Attorney's, Insurance Agencies, Insurance Fraud Investigators, Police and Sheriffs' department's, State and Federal Government Agencies, Businesses, and the News Media.

Services Offered:

Audio- Forensic Analysis of all audio recordings. Including but not limited to:
911 Calls, Voicemails, undercover recordings, witness statements, interviews, and any enhancement/clarification of any audio recording.

Authenticity Analysis of audio recordings- To confirm or deny possibility of tampering or establish if the recording has been altered in any way.

Expert Testimony- I have been qualified as an expert in both state and federal, civil, and criminal, in several states.

Forensic Transcription- Is an accurate documentation of the words spoken in a recording.

Stills and photographs- Image clarification and authenticity.

Video - Forensic Analysis of all video recordings and digital images. Including but not limited to:
Surveillance video enhancement/clarification, Cell phone video recordings, image enhancement/clarification for purposes of identification.

Video Authenticity of video recordings- To either eliminate the possibility of tampering or establish if the video has been altered.

Voice Comparison Analysis- To either eliminate or establish if your suspect's voice is the one in question on the recording.

Video Retrieval and Recovery- Including but not limited to DVR assessment and CCTV video recovery.

Professional Experience

Owen Forensic Services, LLC   **2010-Present**
President, Owner and Chief Forensic Analyst
P.O. Box 189
Colonia, NJ 07067
732-574-9672
732-381-4523 fax
www.owenforensicservices.com

Owl Investigations Inc. New York City, New York   **1995 – 2010**
Chief Forensic Examiner and Analyst
500 5th Avenue
New York, New York
758 South Middlesex Ave
Colonia, NJ 07067

Axon Investigate
(Formerly iNPUT ACE)   **2021-present.**
Lab Assistant during training courses and workshops.
Online training Curriculum Assistance.

EDUCATION

M.A., Major – Criminal Justice: Monmouth University, 2001
B.A., Major – Political Science: Rider University, 1995

New York Institute of Forensic Audio & Video & Voice Identification, Inc.
500 5th Avenue, New York City, NY.
Completion of Voice Identification Course, 2005
Certification as Voice Identification Examiner- 2006

New York Institute for Forensic Audio & Video
Yearly training focusing on Audio, Video and Voice Identification.
1995- present

Published Articles, Speaking Engagements, and Papers Prepared

- *Forensic Audio Analysis – Authenticity Examinations©*, American College of Forensic Examiners, 5th Annual Scientific Conference, December 1997 Tom Owen, Ernst Alexanderson and Jennifer E. Owen
- *Voice Disguises©,* American College of Forensic Examiners, 5th Annual Scientific Conference, December 1997 Tom Owen and Jennifer Owen
- *Experts and their Challenges*, 1999, American College of Forensic Examiners, 7th Annual Scientific Conference, New York City, New York
- *Law and the Expert Witness-*, American College of Forensic Examiners, 13th Annual Scientific Conference Tom Owen, Michael McDermott, Jen Owen, Jill Lindsay 2005
- *Law and the Expert Witness – the Admissibility of Recorded Evidence*, 2005, Audio Engineering Society 26th Annual Conference of Audio Forensics, July 6th-11th, 2005 Denver, Colorado
- *Forensic Digital Recovery-*American College of Forensic Examiners, Kansas City, MO Oct 4-7th ,2007 Tom Owen and Jennifer Owen
- *Forensic Audio Enhancement and Authenticity Analysis: Thomas Edison until Today-* American College of Forensic Examiners, San Diego, CA Sept 3-6, 2008 Tom Owen and Jennifer Owen.
- *The History of Voice Identification and Video Authenticity-* The University of New Haven, CT. The Henry Lee Institute of Criminal Justice, September 12, 2009 Tom Owen and Jennifer Owen
- *Voice Identification 2010*
  The American College of Forensic Examiners, Orlando, FL September 22nd-24th, 2010
- *Panel Demonstration: Workflow of Digital Recorded Evidence, Recovery, Analysis and Environment, Part 1 and Part 2.* Tom and Jennifer Owen
  American College of Forensic Examiner's International, 2011 Executive Summit
  Branson, Missouri October 12-14th, 2011
- *Panel Demonstration: Video Enhancement and Voice Identification*
  Jennifer Owen- Moderator
  American College of Forensic Examiner's International, 2015 Executive Summit
  Santa Barbra, California August 6th-8th, 2015.
- *Women In Forensics: The Digital Detectives* -Jennifer Owen
  The New Jersey Women's Writer's Association
  Woodbridge, NJ November 21, 2015
- The Digital Detectives-The Key to Understanding Digital Evidence by Jennifer Owen, PI Magazine.com, July/August 2018, #158, pages 24-27.
- Annual New Jersey Licensed Private Investigator's meeting, Keynote speaker Digital Documentation- How to Collect & Preserve Best Evidence for all Recorded Media- By Jennifer Owen-Owen Forensic Services-December 11, 2018, Holiday Inn Conference Center, East Windsor, NJ
- Audio Engineering Society- Boston Forensic Audio Seminar   Being an Audio Expert Witness: Challenges and Cases by Jennifer Owen November 11, 2020 via Zoom. Boston, Massachusetts.

Professional Organizations

Audio Engineering Society, Member
International Speech Communications Association, Member
International Association for Identification Member
International Association for Identification, New Jersey Chapter Member
Law Enforcement Video Association, Associate Member
New Jersey Association of Forensic Scientists, Member
Electronics Technicians Association, Member

Specialized training and Continuing Education

New York Institute for Forensic Audio, Video and Voice Identification
Attended annually for further instruction yearly seminars, Instructor 2010-present.
Audio Clarification, Audio Authenticity, Video Clarification, Video Authenticity,
Voice Identification 1995-present

- Medicolegal Death Investigator Training Course, 5 hours, September 23rd, 1995, Florida Association of   Medical Examiners and Investigation for Identification
- Basic Facial Sculpture Workshop, October 30th-Novermber 3rd, 1995, The University of Oklahoma College of Continuing Education
- Medicolegal Death Investigator Training Course, April 22nd-26th, 1996, Saint Louis University School of Medicine
- Advanced Facial Reconstruction, May 6th-10th, 1996, Scottsdale Artist' School
- *Ocean Systems* Avid Express for windows 2000 detective Training (May 2003)
- *Star Witness* Signalscape, FreezeFrame, Video Analysis training Albany NY 2010
- *Digital Summit International*
  Salient Stills Workshop. VF Pro. Las Vegas, Nevada August 2011, Las Vegas Sheriff's Dept.
  Basic Audio Enhancement, 4 credit hours Las Vegas, Nevada August 25, 2011
- Basic Audio Enhancement- Digital Summit International August 25, 2011, 4 credit hours
  National Center for Media Forensics
- Forensic Authentication of Digital Audio Course- Denver, Colorado. June 11-13th, 2012
- *Resolution Video*
- Forensic Video Analysis with Ikena Motion DSP- Napa Valley, California. May 22-24th, 2012
- Digital Video Processing Techniques- New England State Police Network March 26th-March 28th, 2013.
- Resolution Video
- DC Live Audio Forensics, Data Recovery, and Biometric Voice Identification Seminar, April 2013
- Adobe Photoshop for Forensic Video Analysts- Resolution Video, Instructor George Reis
  Sept 23rd-26, 2014
- Introduction to Forensic Audio Analysis, Resolution Video Ohio September 29th- October 1st, 2015
- The Adobe Photoshop Conference, Edison NJ Continuing Education 6 CEU's April 6, 2016
- Salient Sciences, DAC School of Forensic Audio and Video Training, April 25-29th, 2016
  VideoFocus Pro and Cardinal MiniLab 40 hours
- Introduction to FFMPEG, Resolution Video June 16th, and 17th, 2016 Cincinnati, Ohio
- Input Ace- Forensic Video Workflow Training January 30-31st Ocean Systems Burtonsville, MD
- DVR Assessment and Recovery Training, 24 hours, March 13th- 17th 2017 Ocean Systems Burtonsville,   MD
- Clear ID Workshop with Adobe Photoshop, 16 hours March 13th -17th 2017 Ocean Systems Burtonsville, MD
- Creating Composite Images with Adobe Photoshop and Bridge, 7 hours, August 6th-12th, 2017, IAI   Conference, Atlanta, GA
- Forensic Image Comparison, 5 hours, August 6th-12th, 2017, IAI Conference, Atlanta, GA
- Face Comparison using Facial Recognition Systems, 4 hours, August 6th-12th, 2017, IAI Conference, Atlanta, GA
- Advanced Imaging Workshop, 4 hours, August 6th-12th, 2017, IAI Conference, Atlanta, GA
- **iZoptope RX 7 Certification**- Nonlinear Educating, Inc., Ask Video, Matthew Hepworth, 9 hours November 1st,8th, and 15^{th,} 2018
- ETA International (Electronics Technicians Association**)-AVFA Certified Audio/Video Forensic Analyst**- January 9, 2019, to January 9, 2023- Exam taken at Henry Iman Colonia Branch Library, 607 Inman Ave, Colonia, NJ 07067
- LEVA Level 1, Law Enforcement & Emergency Services Video Association International, Inc. Level 1- Forensic Video Analysis & The Law, February 18th- 22nd, 2019 at the Las Vegas Metropolitan Police Department, Las Vegas Metropolitan Police Department, 400 S. Martin Luther King Blvd. Bld. A, Las Vegas, NV 89106- 40 hours Instructors- Detective Dean Brown, Detective M.T. Brown, Detective Ed Baker (Ret), Jonathan Hak, QC Trained using Omnivore.

- LEVA Forensic Technician Certification, LEVA Levels 1 and 2, 80 hours total.
  Instructors- Detective Dean Brown, Detective M.T. Brown, Detective Ed Baker (Ret), Jonathan Hak, QC, Deputy Sheriff Scott Kuntz
  Trained using- Omnivore, Adobe Photoshop with Clear ID plug-in tools and Amped Five.
  LEVA Level 1-Forensic Video Analysis & The Law, February 18th- 22nd, 2019 at the Las Vegas Metropolitan Police Department, Las Vegas Metropolitan Police Department, 400 S. Martin Luther King Blvd. Bld. A, Las Vegas, NV 89106- 40 hours
  Instructors- Detective Dean Brown, Detective M.T. Brown, Detective Ed Baker (Ret), Jonathan Hak, QC
  Trained using Omnivore
  LEVA Level 2-Forensic Video Analysis & The Law, May 6th-10th, 2019 at the Kansas City Police Academy, Kansas City Regional Police Academy, 6885 N.E. Pleasant Valley Rd., Kansas City, MO 64119- 40 hours
  Instructors- Deputy Sheriff Scott Kuntz, Detective Ed Baker (Ret) and Jonathan Hak, QC.
  Trained using Adobe Photoshop Clear ID plug-in tools and Amped Five.
- Resolution Video-Digital Video Evidence Recovery- July 30-31, 2019, 16 hours- at Rappahanock Regional Criminal Justice Academy-3630 Lee Hill Dr, Fredericksburg, VA 22408 Instructor- Dorothy Stout Resolution Video
- LEVA Level 3-Forensic Video Analysis & The Law, September 23-27, 2019 at the Kansas City Police Academy, Kansas City Regional Police Academy, 6885 N.E. Pleasant Valley Rd., Kansas City, MO 64119- 40 hours, Instructors- Tracy Peloquin, Detective Ed Baker (Ret) Forensic Video/Image Compare and Contrast. Trained using Adobe Photoshop, Amped, Input Ace Video Forensic Pro
- LEVA Level 4- Advanced Forensic Video Analysis and the Law at Rocky Mountain Information Network December 9-13th, 2019 Phoenix Arizona- 40 hours Instructors- Jonathan Hak, QC. Roy Dunkelbarger. This course is primarily hands-on in which students process video evidence, write a report and present it in a moot court. Perfecting the CV is also featured. Trained using Adobe Photoshop, Adobe Premiere Pro.
- iZotope RX Essentials, Resolution Video September 22, 2020 8 hours of instruction. Allan Combs.
- LEVA's 31st Annual Digital Multimedia Evidence Training Symposium, Law Enforcement and Emergency Services Video Association. October 26th- 30th, 2020. Attended remotely. 28.5 Hours of Instruction.
- January 18-21, 2021 Courtroom Testimony for Expert Witnesses
  Law Enforcement and Emergency Services Video Association International Inc.
  Course Instructor: Jonathan W. Hak, Q.C.
  Live Online Course -preparation for court the essentials of trial procedure, becoming qualified as an expert witness, drafting expert reports and CVs, peer review, expert witness bias, effective communication in direct and cross examination and moot court training.
- January 11-15 2021 Forensic Image and Video Enhancement with Amped Five
  Amped Software, Course Instructor: Samuel Abbott
  Live Online Course
- February 16-17, 2021 Module 1 Introduction and 2 Case Management
  Input Ace
  Live Online Course This hands-on virtual course exposes students to the latest techniques and methodologies used to accurately interrogate and process digital multimedia evidence for the purpose of furthering a criminal investigation. Students are directed through the processes of recovering valuable evidence from video images using the software solution: iNPUT-ACE.
  Case Management builds on the Intro to iNPUT-ACE content by exposing students to advanced techniques and methodologies used to accurately interrogate and process digital multimedia evidence. Students will learn how to perform in-depth investigations using the built-in tools inside iNPUT-ACE.
  Received iA Operator certification.

- February 23-24th 2021 Module 3 Workflow and Technical and Module 4 Narrative Reports and Demonstratives
  Input Ace
  Live Online Course
  Building on Intro to iNPUT-ACE and Case Management, students enrolled in Workflows and Technical Considerations will learn how to adjust frame rates, understand compression, and incorporate filters and advanced processes. Students will develop the ability to resize and deinterlace video while preparing workflows and understanding how to properly use enhancement techniques on video evidence.
  Building on the previous course work, students will learn how to compile demonstrative reports to include embedded Sub Clips, Marked Images and descriptions specifically for sharing information between investigators, prosecutors and when testifying in court.
  Received iA Examiner Certification.
- March 4, 2021 Metrology Certification
  iNPUT ACE
  Live Online Course
  Students will learn about the foundations of measuring distance/speed from complex video files while overlaying photo/video evidence over 3D point cloud data.
  Received iA Metrology Certification.
- March 22-25th, 2021 iNPUT ACE SYMPOSIUM 16 hours
- March 22, 2021 Session 1 and 2
- Session 1 Video Investigation Units- How the media is leveraging open-source intelligence to conduct forensic video examinations- Grant Fredericks.
- Session 2 Civilian Oversight- The Influence of video on public perception- Lisa Judge and Josh Guthrie
- March 23, 2021 Session 3 and 4
- Session 3 Video Examination & Admissibility in the courtroom- Are you an expert? - Eric Daigle
- Session 4 Fusion of 3D Technologies and Imagery- Eugene Liscio
- March 24th Session 5 and 6
- Session 5 Advancements in technology for calculating speeds- Andrew Fredericks James Kennedy Michael Jorgenson
- Session 6 From Expert-to-Expert Witness: A defense Attorneys Perspective- Solomon Friedman
- March 25, 2021 Session 7 and 8
- Session 7 Defending against recent challenges to video evidence- Andrew Fredericks
- Session 8 Emerging trends in Video Evidence- Andrew Fredericks, Josh Guthrie Grant Fredericks Eugene Liscio
- September 14-16th, 2021 has successfully completed a 15-hour online course, conducted 14-16 September 2021, covering video import and capture; video/audio synchronization, clarification, editing, and export; and furthermore, has received instruction in the technology and proper operation of Salient Sciences' VideoFOCUS Pro software- Don Tunstall
- September 21-23rd, 2021
  has successfully completed a 15-hour online course, conducted 21-23 September 2021, covering the characteristics of sound, audio, voice, and noise; and forensic audio clarification processing; and furthermore, has received instruction in the technology and proper operation of Salient Sciences' CARDINAL MiniLab Suite software.
- June 22nd and 23rd, 2022
  Video Examinations for Police Investigators -A two-day course covering handling video evidence from recovery to processing and testimony. 16 hours of Instruction. Lab Assistant to Instructor Mark Andrews.
  Onsite. Phoenix, Arizona, Axon Investigate.
- May 9, 2023
- Axon Investigate, Instructor, Module 2 Basic Processing and Reporting
  Module 2 builds on the Intro to Axon Investigate content by exposing students to advanced techniques and methodologies used to accurately interrogate and process digital multimedia evidence. Students will learn how to perform in-depth investigations using the built-in tools inside Axon Investigate.
- May 18th, 2023
  UCTECH, Academy of Law and Justice, Career Day. Scotch Plains, NJ.
  Participated in Career Explorations with students.
- May 2023- November 12, 2024 and continuing.
  Attending and lab assisting Axon Investigate Modules 1,2,3, and 4 monthly since May 2023.
- December 16th -20th, 2024 completed online Izotope RX 10 Advanced training. Online Course offered by Lynda training. Certificate of Completion.

Professional Experiences

- **Axon Investigate (formerly iNPUT Ace)** - Lab Assistant March 2021 to present. Assisting students during training modules online monthly**.**
  May 2023- Instructor of Module 1 and 2.

- **New York Institute of Forensic Audio, Video, & Voice Identification, NY and NJ**
  Assisted in lesson plan preparation, prepared final examinations, and organized course content.
  1995-present, Instructor 2010-present. Fully accredited with Bowling Green University, Bowling Green, KY.

- **Senior Research Assistant for the Owen Study**
  Collected voice exemplars and used voice Identification theory and applications in a 400-participant study. Trained in Voice ID 700, Multi-speech, Easy Voice Biometrics, analog recording digital recording w/USB, and broadband transfer technologies. Responsible for maintaining recording equipment, Excel database of voice exemplars, WAV files of participants, and Access files of all corresponding personal information. Over 15,000 one to one comparisons within the study.

SELECTED ACHIEVEMENTS

- Organized the annual scientific seminar New York Institute of Forensic Audio, Video, and Voice Identification from 1995-present.
- Instructor for the New York Institute Forensic Audio, Video & Voice Identification from 2010-present.
- Voice Identification Chairman for the American Board of Recorded Evidence, 2010- 2012.
- Certified Forensic Video technician- Law Enforcement and Emergency Services Video Association May 2019
- Certified Audio/Video Forensic Analyst Electronics Technicians Association. January 2019
- Certified iA (iNPUT ACE) Operator Certification February 2021
- Certified iA (iNPUT ACE) Examiner Certification February 2021
- Certified iA Metrology Certification March 4, 2021
- All iA certificates have been transferred to Axon Investigate.